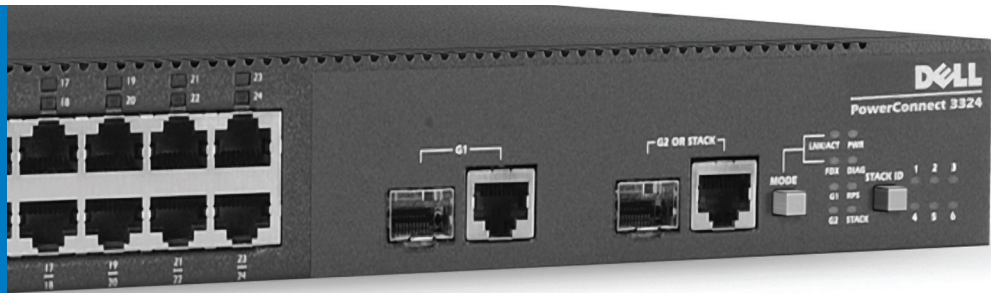
Dell PowerConnect 3300 Series Switches



Dell™ PowerConnect™ 3324 and 3348 stackable Fast Ethernet switches offer advanced management and security features for high-performance workgroup connectivity.

Rack-Dense Wire-Speed Performance

PowerConnect 3300 Series switches are rack-dense, fixed-port Fast Ethernet switching solutions delivering full wire-speed switching performance. Offering 24 or 48 Fast Ethernet ports in a 1U form factor with two built-in copper Gigabit Ethernet ports, the PowerConnect 3324 and 3348 switches have total switching capacities of up to 8.8 Gbps and 13.6 Gbps respectively. Each switch offers additional flexibility with its two SFP transceiver slots, which can be used in lieu of the two copper Gigabit ports to support fiber media. Additionally, the PowerConnect 3324 and 3348 switches can be stacked up to six switches with as many as 192 Fast Ethernet ports via an optional stacking module in one of the SFP slots. Stacking capabilities deliver simplified management as the entire stack of switches can be managed as a single system.

Easy, Powerful Management

PowerConnect 3300 Series switches support a number of management interfaces, including an easy-to-use embedded Web interface as well as an industry-standard Command Line Interface (CLI), which allows network administrators to utilize existing switch configuration skills. The switches can be managed remotely via a Web browser, Telnet or Simple Network Management Protocol (SNMP), and support a comprehensive Management Information Base (MIB) as well as four RMON groups. To assist with centralized management of the network infrastructure, the switches also support remote logging via syslog. This broad management support eases the tasks of network management and ensures integration into a variety of third party network management applications.

Multi-Layer Quality of Service

Network traffic prioritization is a key requirement for deploying emerging applications like videoconferencing and voice-over-IP. The PowerConnect 3324 and 3348 switches provide four priority queues per port. Packets can be classified based on the Layer 2 IEEE 802.1p standard, the Layer 3 IP Precedence or IP Differentiated Services Code Point (DSCP) standard, or the Layer 4 standard utilizing TCP/IP ports. These capabilities help increase deployment flexibility and protect networking infrastructure investments.

Robust Security

Advanced security features of the PowerConnect 3300 Series switches help protect the network from accidental or malicious interference. MAC-based port security is designed to prevent unauthorized MAC addresses from accessing the network. Access Control Lists (ACLs) deliver even tighter control over the network by allowing or denying traffic flows based upon the flow's source or destination MAC address, source or destination IP address, source or destination TCP/UDP port, DSCP value or IP Precedence. SSL and SSH encryption offer the added security of encrypting switch management traffic. RADIUS support enables centralized, remote authentication of administrative access to the switch. SNMP access filtering provides a mechanism to limit network hosts that have SNMP access to the switches.

Advanced Switching Features

The PowerConnect 3324 and 3348 switches support a variety of standards-based advanced switching features, allowing a network administrator to optimize traffic flow in the network. Up to 247 VLANs are supported, enabling limitation of broadcast domains as well as improved network security. GVRP (GARP VLAN Registration Protocol) provides for dynamic port-based VLAN configuration as per IEEE 802.1Q, and helps reduce administrative tasks associated with static VLANs. Other advanced features including port mirroring, dynamic link aggregation (LACP), and IP multicast support (IGMP v1 and v2).

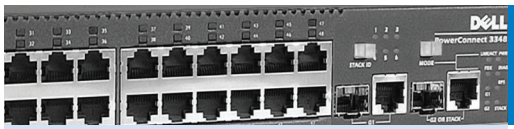
High Availability

The PowerConnect 3300 Series offers several availability features to meet enterprise networking needs. Spanning Tree Protocol and Rapid Spanning Tree Protocol support help reduce network setup time and improve network availability by automatically activating standby links if the active link fails. The switches also store dual configuration files and firmware images for rollback purposes. Overall availability can be further increased by deploying the optional Dell PowerConnect RPS-600 redundant power system. Each RPS-600 supports up to four PowerConnect switches, eliminating a switch's internal power supply as a single point of failure.

PowerConnect 3324

PowerConnect 3348

Simplicity and Performance. Easy as DELL



Dell PowerConnect 3300 Series Switches

DELL ENTERPRISE SERVICES

By leveraging the proven advantages of our direct model, including tailored service and support, low cost and a single point of accountability, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. Whether you need support, deployment, training and certification programs, or professional consulting services, individually or bundled as a total package, Dell promises to be your single point of accountability at all times.

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Dell Professional Services enables Dell customers to optimize ROI by leveraging complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver the desired results.

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Our approach to Training and Certification allows you to outsmart your competitors—not outspend them—with industry standard learning across Dell hardware and industry standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

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Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our **Enterprise Support Services** offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management, and remote resolution, Dell provides support solutions that meet your needs, cost effectively.

Standard Warranty and Service Plan

- Three-year limited warranty[1] supplemented with three years of Next Business Day[2] part or unit advance exchange hardware replacement
- 7-day/24-hour Lifetime Telephone Technical Support for troubleshooting and diagnosis of Dell hardware
- 7-day/24-hour Online Support Services
- Lifetime firmware upgrades (available for download via support.dell.com)

Optional Support

You can upgrade to three or five years of part or unit advance exchange hardware replacement, with either Same Day or Next Business Day response. You may also choose three or five years of On-Site Hardware Support Service, with either Same Day or Next Business Day response.

FEATURES	PowerConnect 3324	PowerConnect 3348
Port Configuration	24 10/100BASE-T ports 2 10/100/1000BASE-T ports 2 SFP slots (combo) for stacking and/or fiber support Auto-negotiation for speed, duplex mode and flow control; auto MDI/MDIX	48 10/100BASE-T ports 2 10/100/1000BASE-T ports 2 SFP slots (combo) for stacking and/or fiber support Auto-negotiation for speed, duplex mode and flow control; auto DI/MDIX
Performance	Switching Capacity 8.8 Gbps Forwarding Rate 6.5 Mpps	Switching Capacity 13.6 Gbps Forwarding Rate 10.1 Mpps
Management	Web-based management interface Industry-standard CLI SNMPv1 and SNMP v2c supported 4 RMON groups (history, statistics, alarms and events) BootP/DHCP IP address management Syslog remote logging	
Class of Service	Four priority queues per port, adjustable WRR and strict priority Layer 2 IEEE 802.1p tagging and port-based priority Layer 3 priority based on IP ToS (IP Precedence, DSCP) Layer 4 priority based on TCP/UDP port	
Security	Switch access password protection Port-based MAC address alert and lock-down Layer 2/3/4-based Access Control Lists (ACLs) RADIUS support for switch management access SSL/SSH encryption for switch management traffic SNMP access filtering	
VLAN	IEEE 802.1Q tagging and port-based, up to 247 VLANs Dynamic VLANs with GVRP support	
Multicast	IGMP v1/v2 snooping Static IP Multicast	
Switching Features	Link Aggregation, up to eight ports per aggregated link (IEEE 802.3ad) and up to six aggregated links LACP support Port mirroring	
Availability	Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link support Dual firmware images Configuration file upload and download External redundant power support with PowerConnect RPS-600 (sold separately)	
Chassis	44.0 x 23.1 x 4.3 cm (17.3 x 9.1 x 1.7 inches) 1U, rack-mounting kit included	44.0 x 35.4 x 4.3 cm (17.3 x 13.9 x 1.7 inches) 1U, rack-mounting kit included
Peripheral Products	RPS-600 Redundant Power Supply Stacking Module for Dell PowerConnect 3300 Series Switches Dell SFP Transceivers (1000-SX and 1000-LX)	

[1] For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit www.dell.com/us/en/gen/services/service_service_plans.htm.

[2] Technician, replacement part or unit (depending on service contract) will be dispatched if necessary following phone-based troubleshooting in advance of receipt of returned defective unit. Service may be provided by third-party provider. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. Defective unit must be returned. Replacements may be refurbished. U.S. only.

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